

FIG.1

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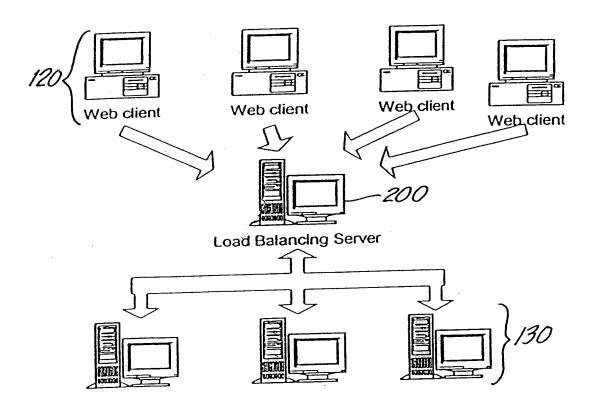


FIG.2

Appl. No. 09/608,208 Filing Date: June 30, 2000 Inventor: Alcorn, et al.

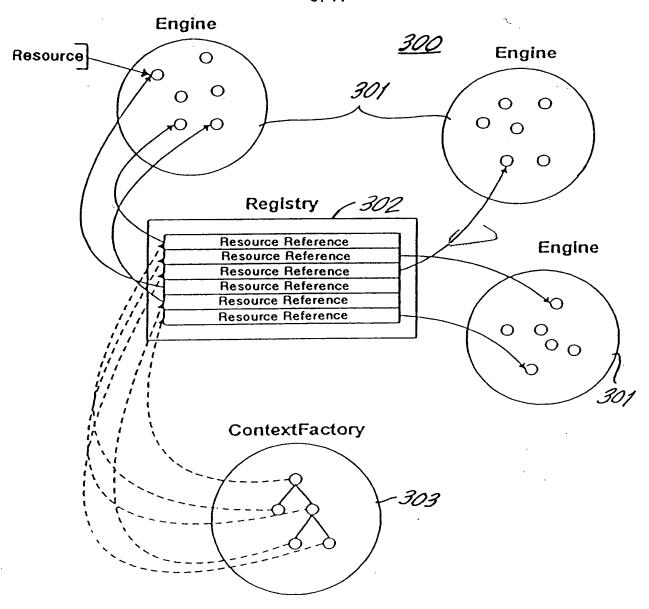


FIG.3

Appl. No. 09/608,208 Filing Date: June 30, 2000 Inventor: Alcorn, et al.

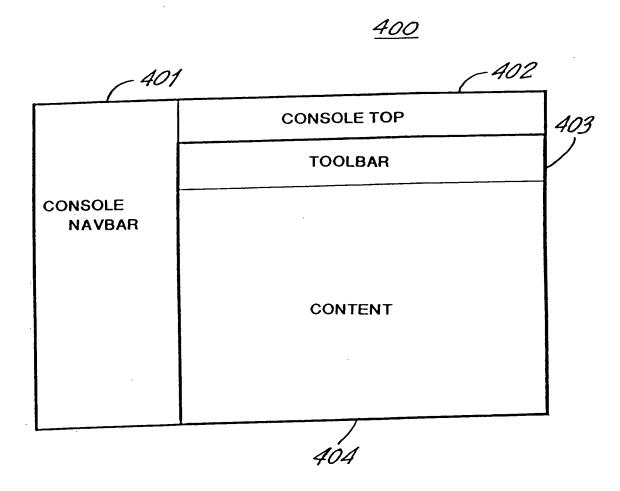


FIG.4

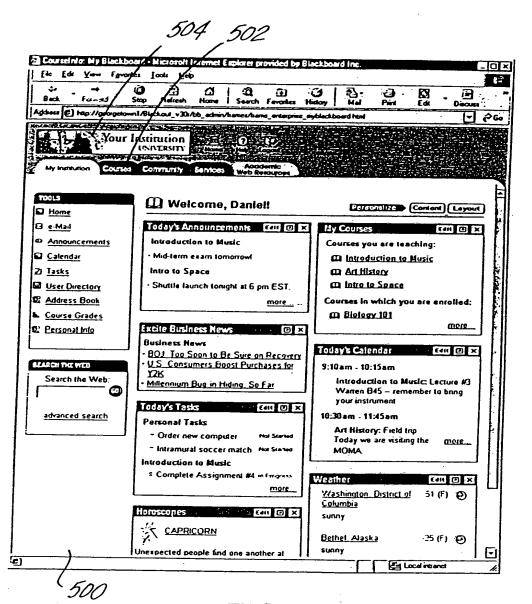


FIG.5

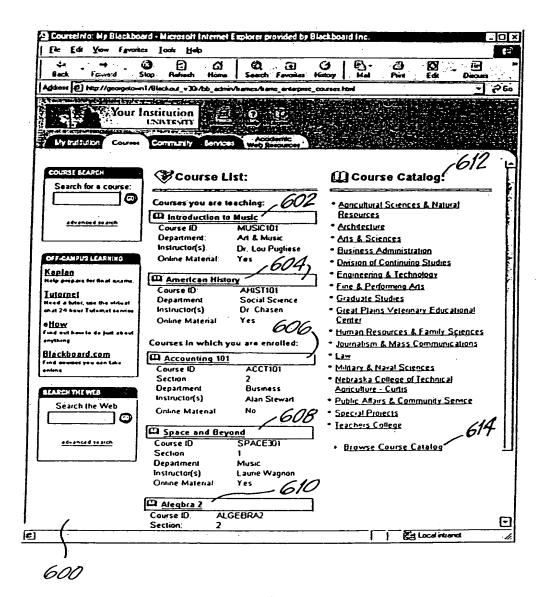


FIG.6

Appl. No. 09/608,208 Filing Date: June 30, 2000 Inventor: Alcorn, et al.

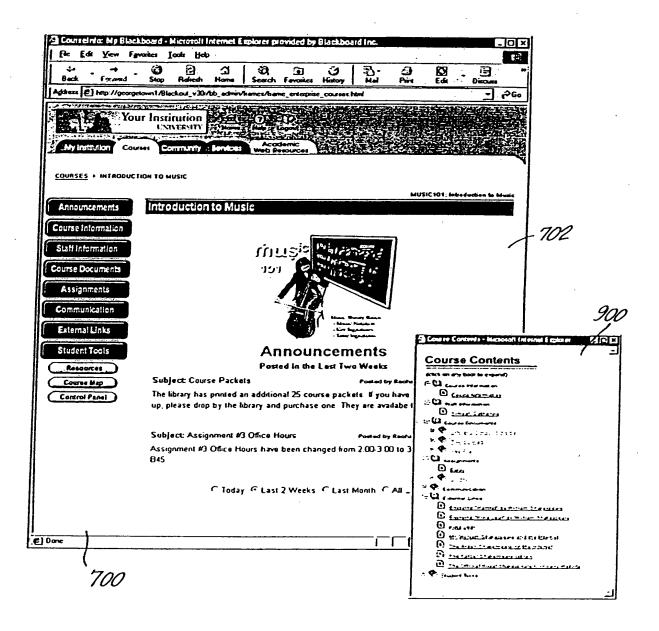
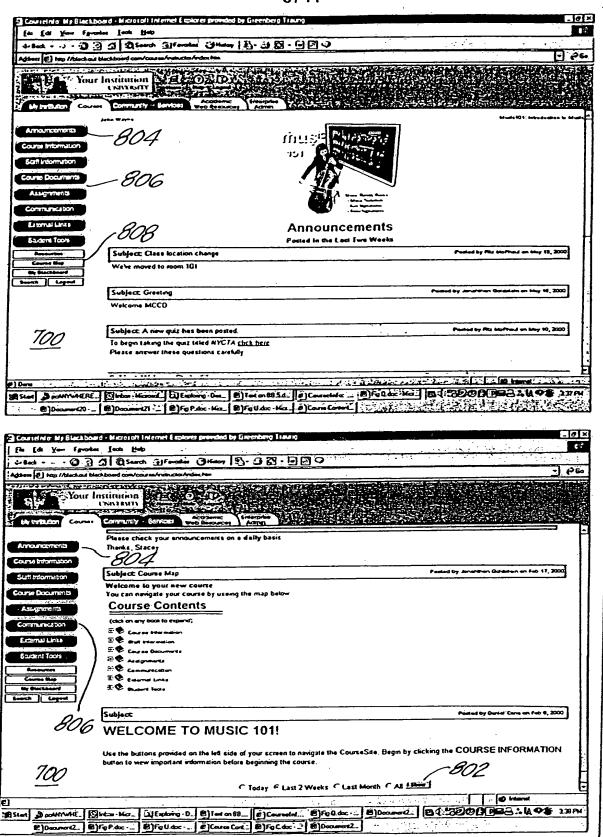


FIG.7

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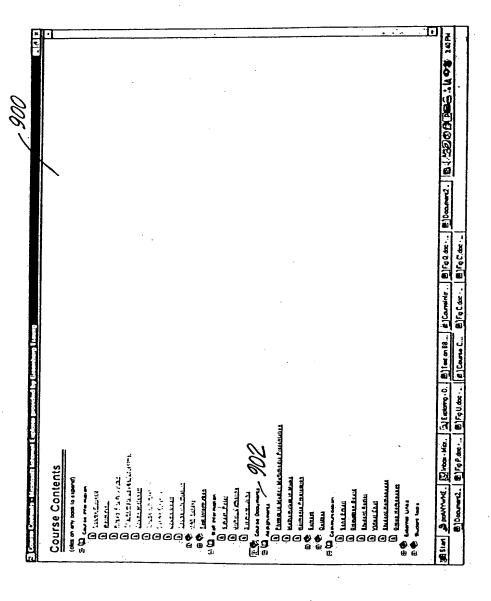


FIG.9

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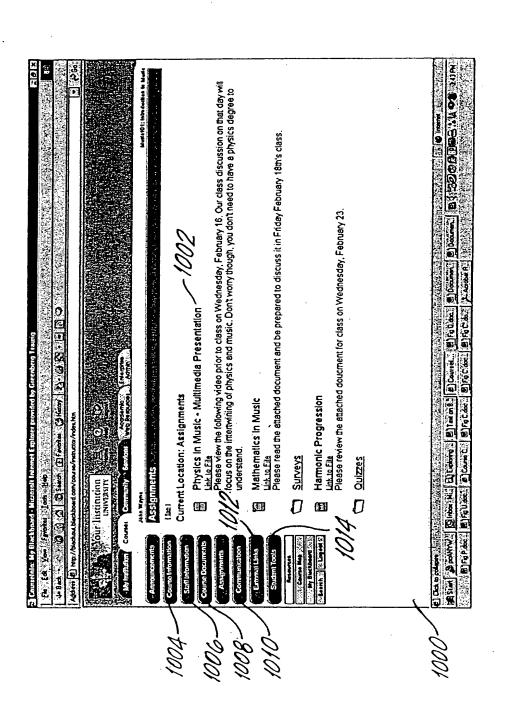


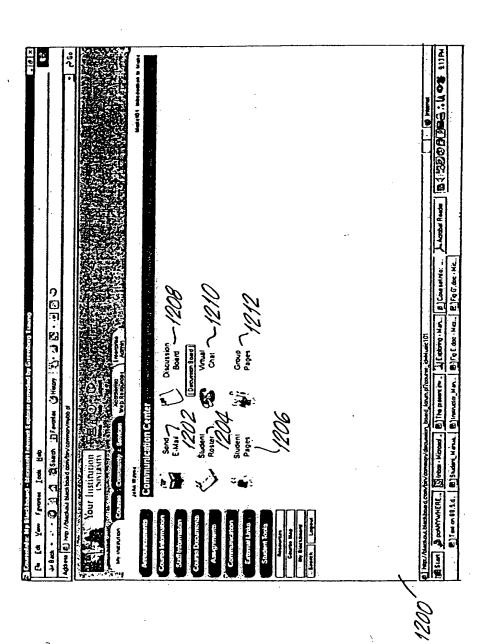
FIG. 10

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**FIG.11** 

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FIG.13

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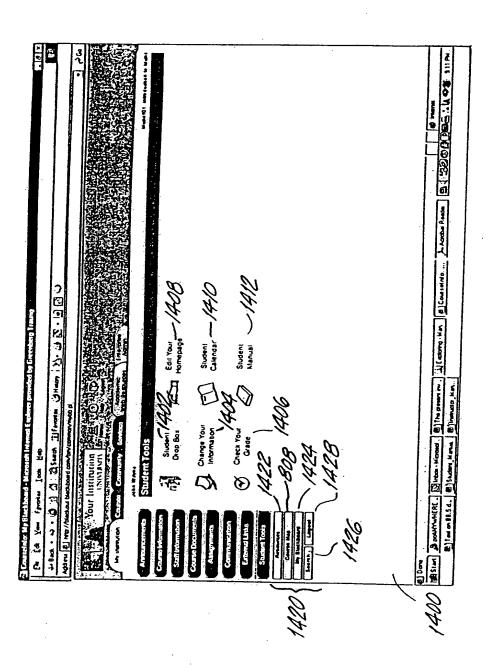


FIG. 14

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Inventor: Alcorn, et al.

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John Wayne

**Student Tools** 

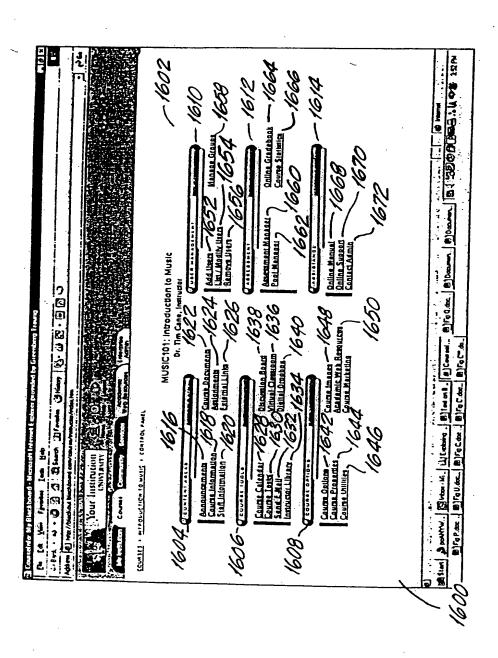
**Student DropBox** 

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

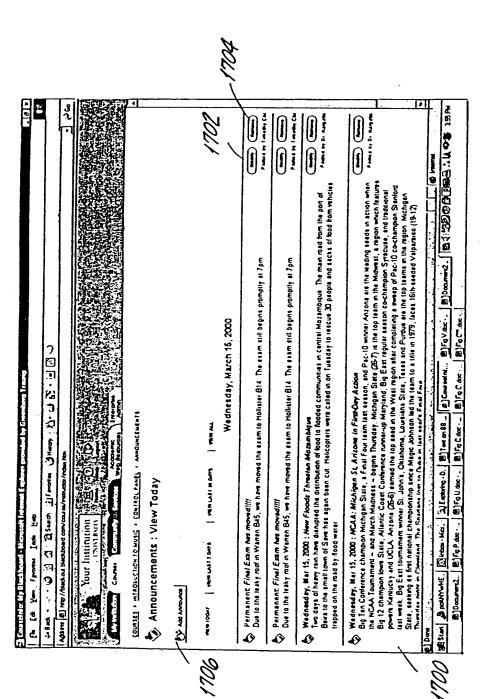
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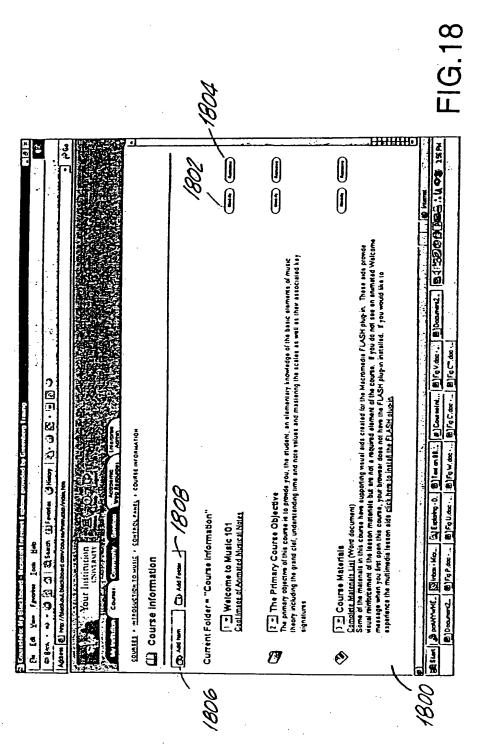
**FIG.15** 



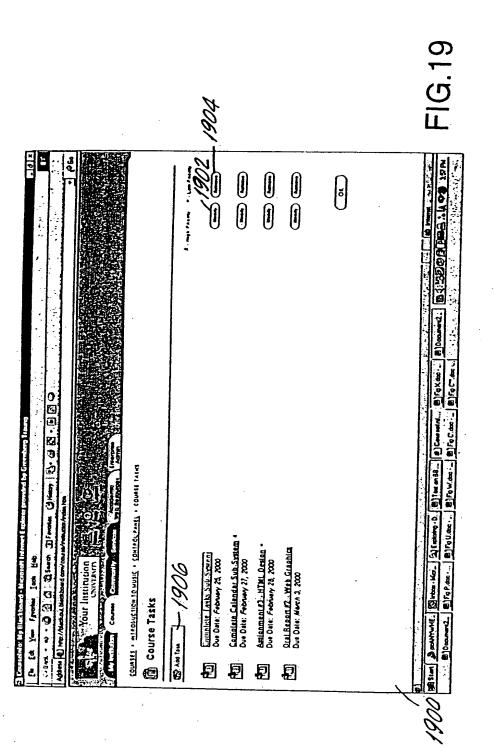
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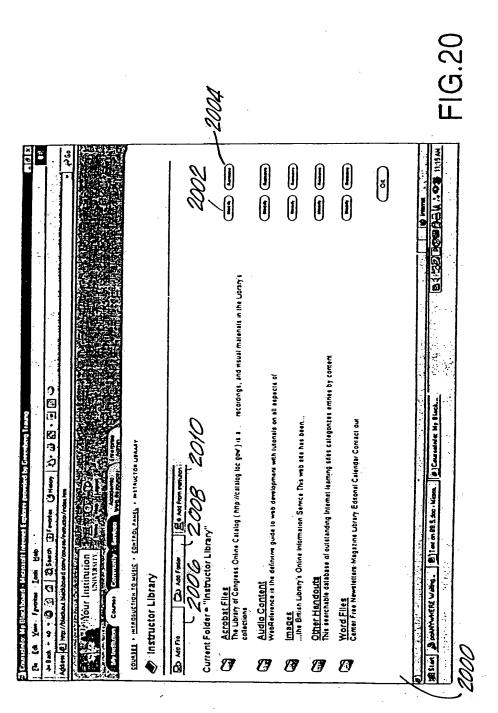


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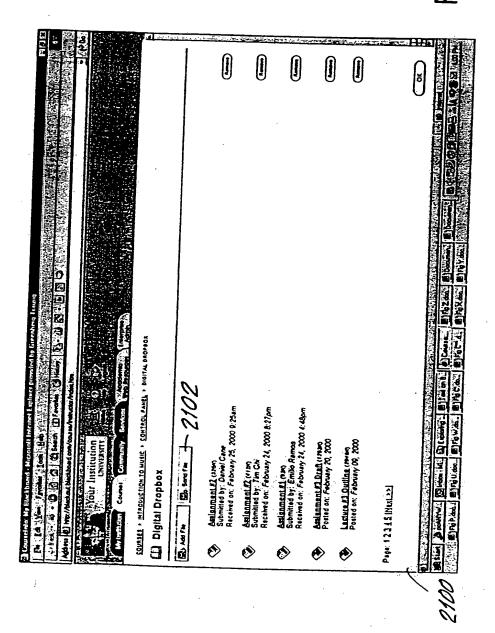
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FIG.22

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COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE STATISTICS > REPORT

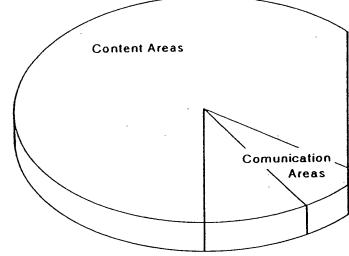
### Course Statistics

Statistics Generated on Thursday, February 24, 2000 11:26:28 AM
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Total Number of Accesses per Area — 2302
Number of Accesses over Time — 2304
User Accesses per Hour of the Day
User Accesses per Day of the Week — 2306
Total Accesses by User — 2310 2308

### Total Number of Accesses per Area — 2302

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %



## Number of Accesses over Time -2304

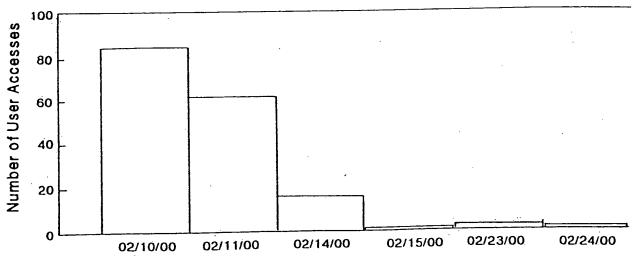
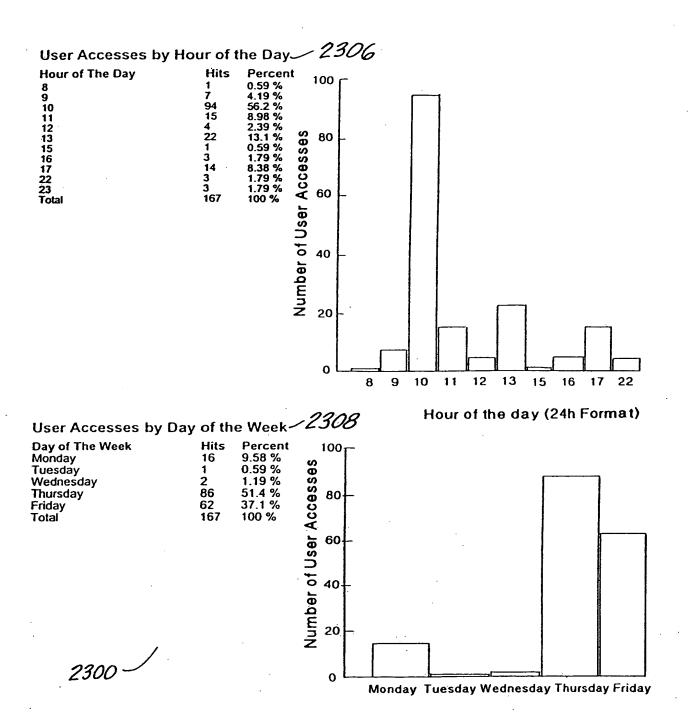


FIG.23A

REPLACEMENT DRAWINGS Appl. No. 09/608,208 Filing Date: June 30, 2000

Inventor: Alcorn, et al.

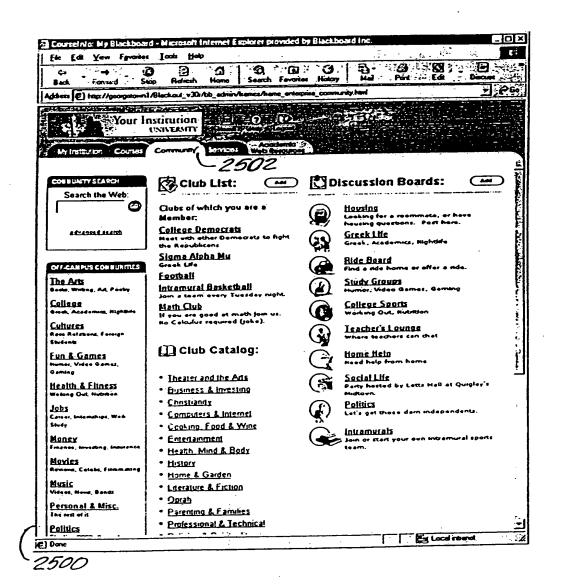


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FIG.24



**FIG.25** 

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Filing Date: June 30, 2000 Inventor: Alcorn, et al.

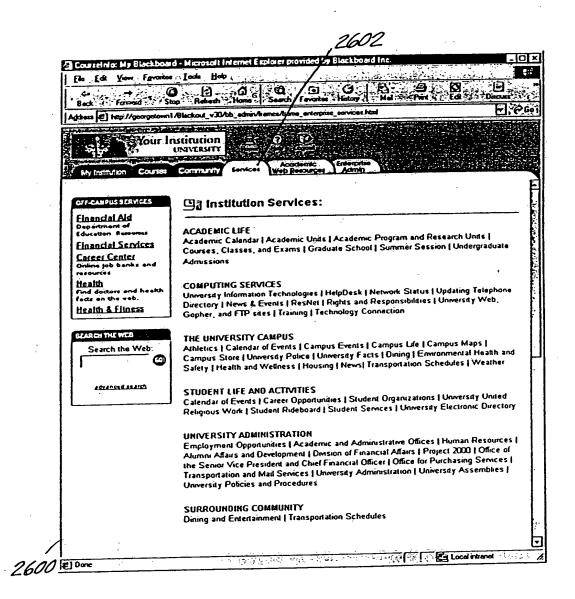


FIG.26

REPLACEMENT DRAWINGS Appl. No. 09/608,208 Filing Date: June 30, 2000

Inventor: Alcorn, et al.

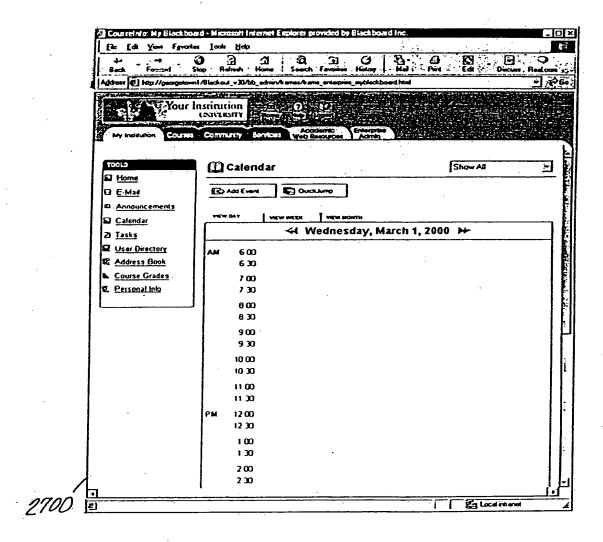
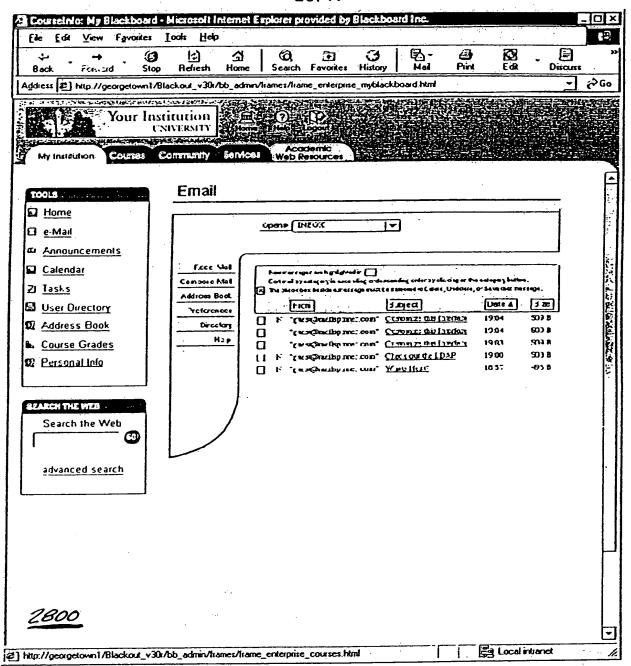


FIG.27

Appl. No. 09/608,208 Filing Date: June 30, 2000 Inventor: Alcorn, et al.

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**FIG.28** 

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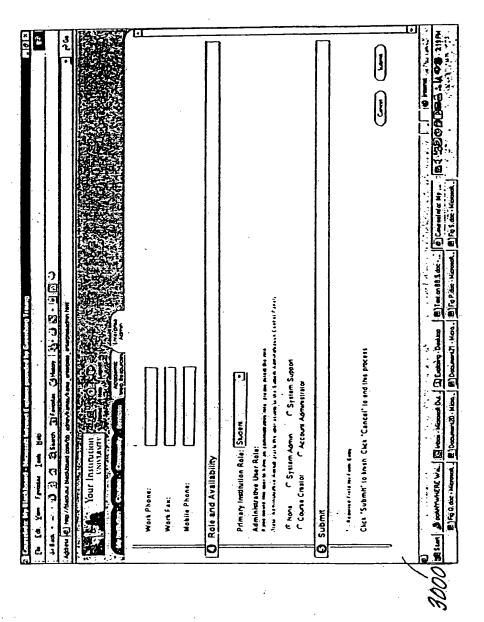
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Appl. No.09/608,208 Filing Date: June 30, 2000 Inventor: Alcorn, et al.

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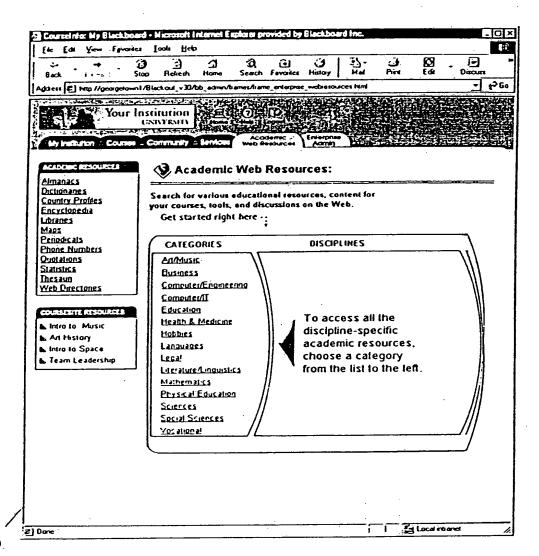
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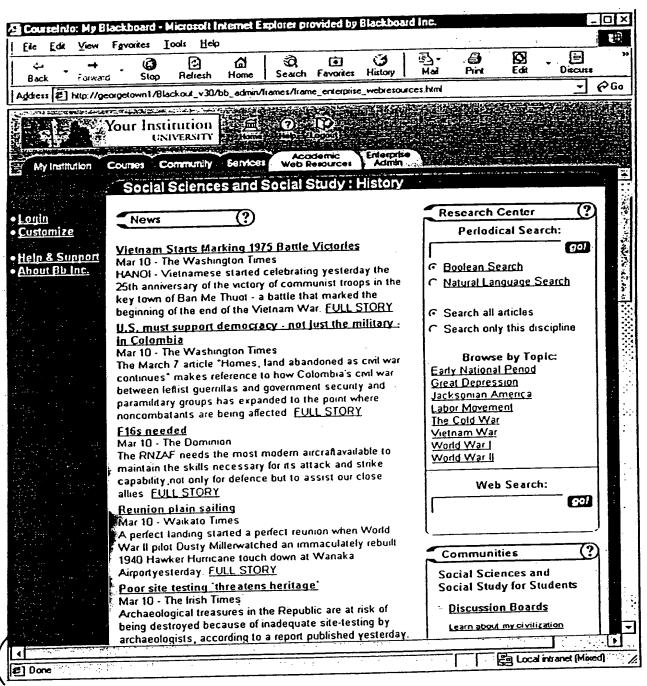
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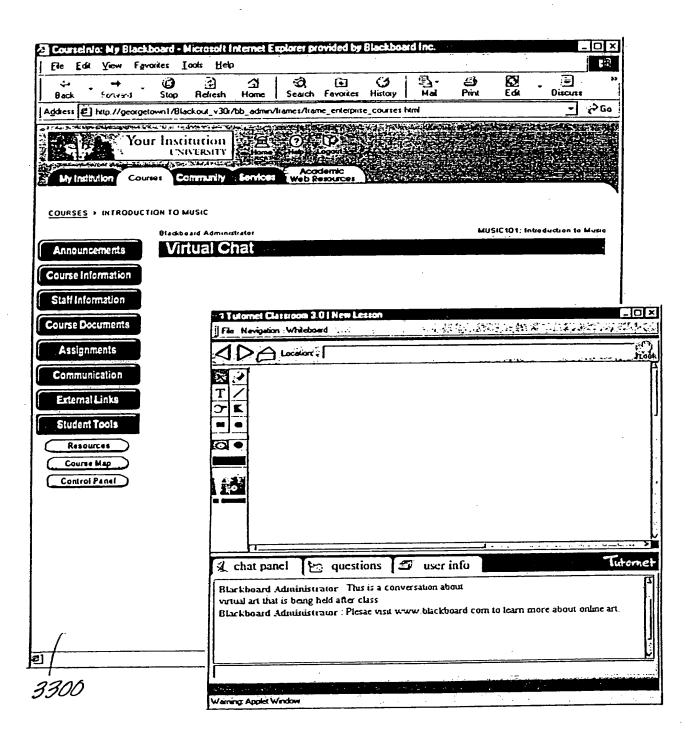
**FIG.31** 

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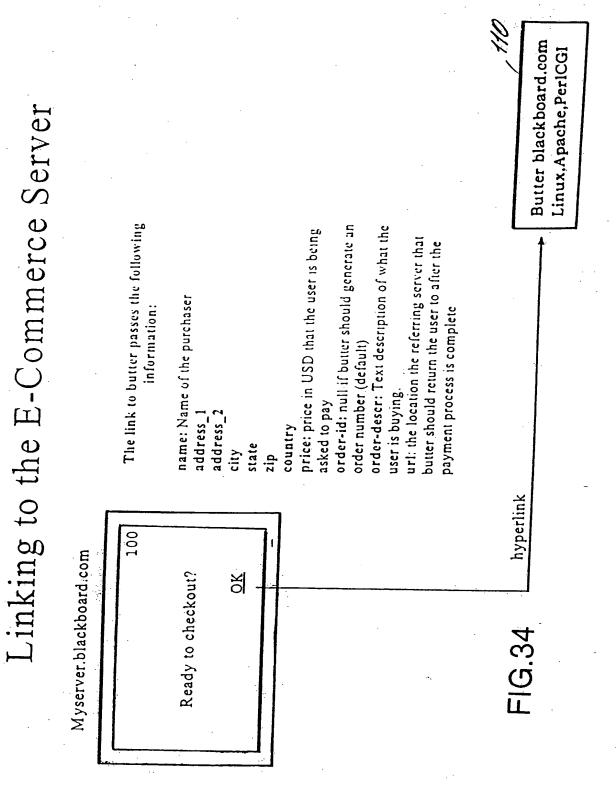
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**FIG.33** 



### 37/41

Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

First E-Commerce Screen Display

Butter.blackboard.com

Whatever user info is available is populated from the data passed from the previous page.

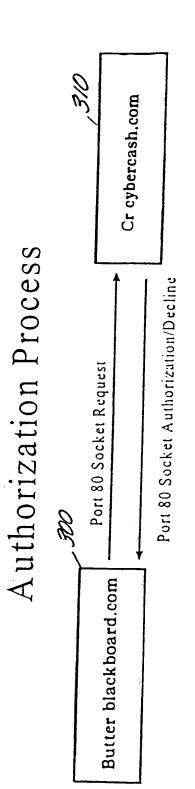
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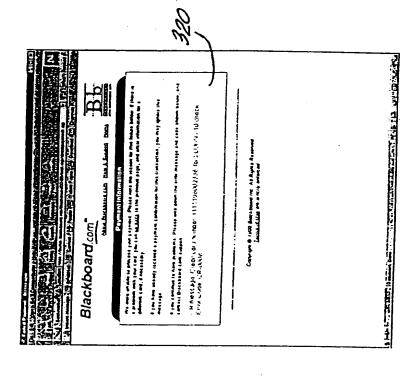
Appl. No. 09/608,208
Filing Date: June 30, 2000
Inventor: Alcorn, et al.

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The authorization process takes a minute or so.

 If the card is rejected, a page like the one at right is displayed.  If the card is accepted, the payment goes through, and the page on the next slide is shown.



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# uthorized and queued at Cybercash,

Second E-Commerce Screen Display

Butter.blackboard.com

Payment is authorized and queued at Cybercash, Inc for processing.

The payment will go through and appear in Blackboard's Cybercash account within 12 hours.

Bb

Blackboard.com\_

There is no way that the user can back out at this point without Blackboard issuing a manual refind

No services are provided yet. The user must follow the link at the bottom of the page, or he will receive nothing for his money.

All links on this page are disabled except the one that says "YOU MUST CLICK HERE" This prevents users from failing to get their orders filled

A authorization code is calculated by the script as a secure hash of the purchase price, the order id, and a secret number.



FIG.37

Inventor: Alcorn, et al.

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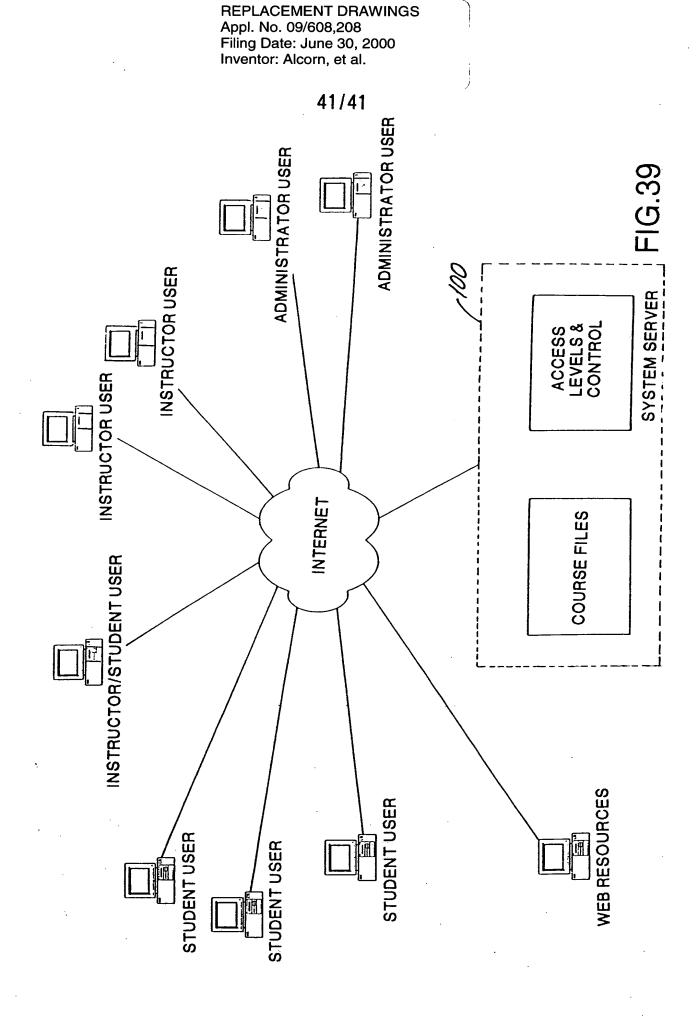
# Returning to the Originating Server

Butter.blackboard.com

•The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script. •The authorization code, the order\_id and a subset of the credit card digits (show\_card) are passed back as parameters. •The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.

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FIG.38



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